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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,418	10/17/2003	Madhav Datta	64, 610-042A (YO998-431U	2214
7590 07/14/2005			EXAMINER	
Randy W. Tung Tung & Associates			KARLSEN, ERNEST F	
			ADTIBUT	PAPER NUMBER
Suite 120			ART UNIT	FAFER NUMBER
838 W. Long Lake Road			2829	
Bloomfield Hills, MI 48302			DATE MAILED: 07/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/688,418	DATTA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ernest F. Karlsen	2829				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 25 April 2005.						
2a)⊠ This action is FINAL . 2b)☐ This						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 15-20 is/are pending in the application. 4a) Of the above claim(s) 17-20 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 15 and 16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da					

Claims 17-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions and/or species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on November 8, 2004.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15 and 16 are again rejected under 35 U.S.C. 102(b) as being anticipated by Rostoker.

With regard to claim 15, Rostoker shows in Figure 7d a multiplicity of contacts 750 on an IC chip which have a height less than one half of their diameter and are thus in a flattened hemispherical shape. With regard to claim 16, standard everyday solder is composed of lead and tin and thus the limitation of the solder containing lead is considered inherent.

The above is the exact rejection made in the previous Office Action for which Applicant has provided arguments.

The "Background of the Invention" of Rostoker indicates in columns 1 and 2 that flip chip packages can be formed by mounting chips to a silicon substrate. Equivalence of bumps on chips (packages) and substrates is set forth in Rostoker column 1, line 63 to column 2, line 50. Note that in column 2, lines 33 plus indicate that the height of a

Application/Control Number: 10/688,418

Art Unit: 2829

solder bump is dependent on the amount of solder paste deposited. Both Figure 7d and

Page 3

Figure 1c show solder bumps with a height less than one half the solder bump diameter.

The solder bump can be either on a chip or a substrate. Therefore the bump on the

substrate of Figure 7d is equivalent to a bump on a pad of a chip. When solder bumps

are on a chip they are on a pad on an active surface. Chips normally have more than

one bump. Such is inherent.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Ernest F.

Karlsen at telephone number 571-272-1961.

Ernest F. Karlsen

July 9, 2005

PRIMARY EXAMINER